

# ProTools - Video and Audio Monitoring Setup in CMB Grad Suite Edit Labs -

Audio will play through the speakers out of ProTools but must follow these steps

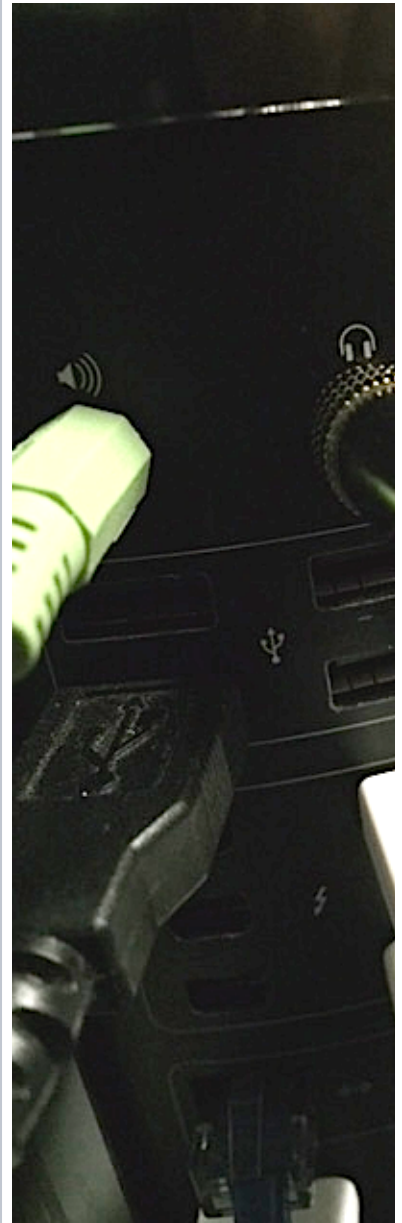
**Unplug the thunderbolt cable to Black Magic Design Thunderbolt Shuttle**

**RESTART THE COMPUTER**

**Plug in the thunderbolt cable**

Blackmagic Shuttle is connected via the Thunderbolt cable to the computer.

Make sure the Headphones are plugged into headphone jack on Mac Pro



Use the TV Remote>

Turn on the Monitor and make sure you select the HDMI input



Select the Aux Input and

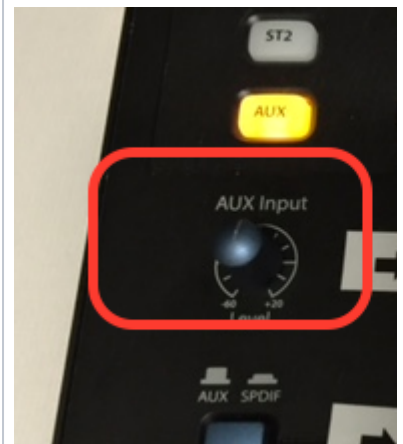
Turn up the volume.

Make sure Speaker A is also lit up

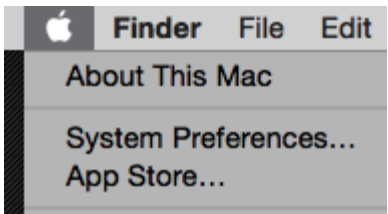


This Aux Input will also boost audio

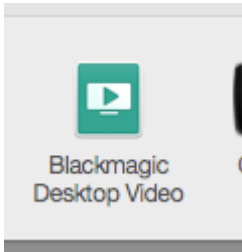
Make sure that the Aux button is not pushed in CUZ that'll make the audio not work



Go to >Apple>System Prefs



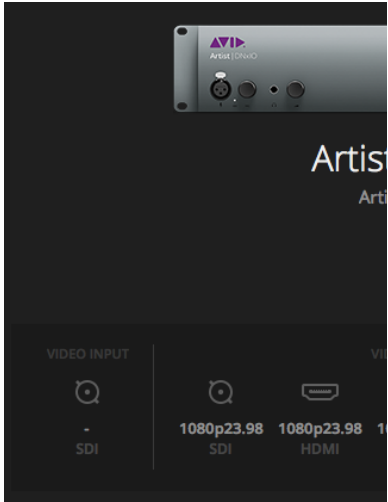
System Prefs>Blackmagic Desktop Video and click on it



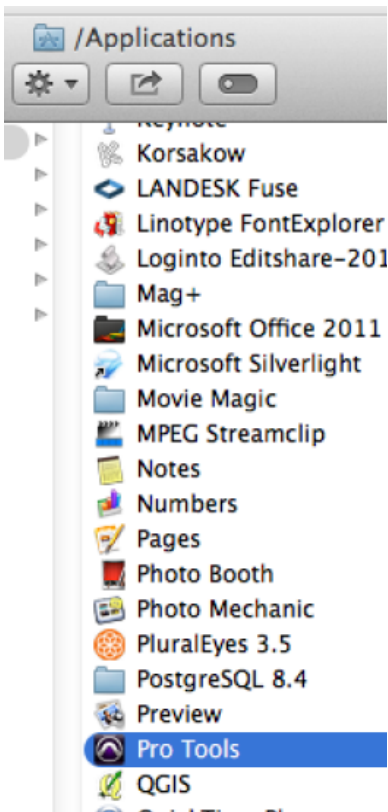
Make sure you see the Intensity Shuttle Thunderbolt



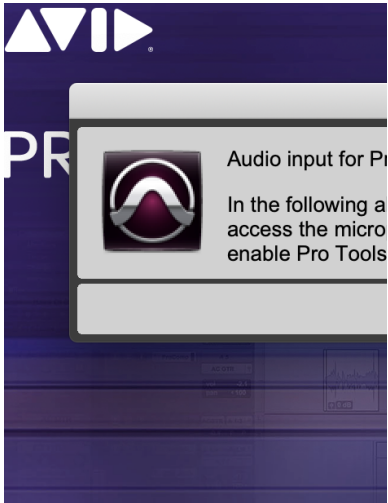
or the AVID Artist DNxIO or the Ultrastudio 4K Extreme



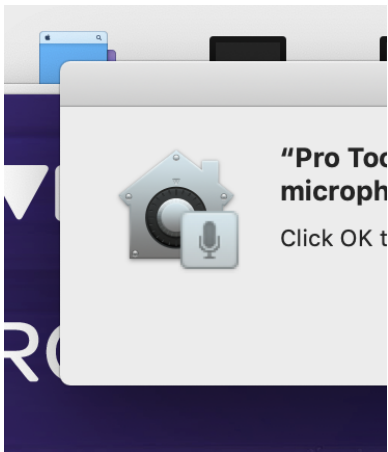
Launch ProTools



Click OK Here

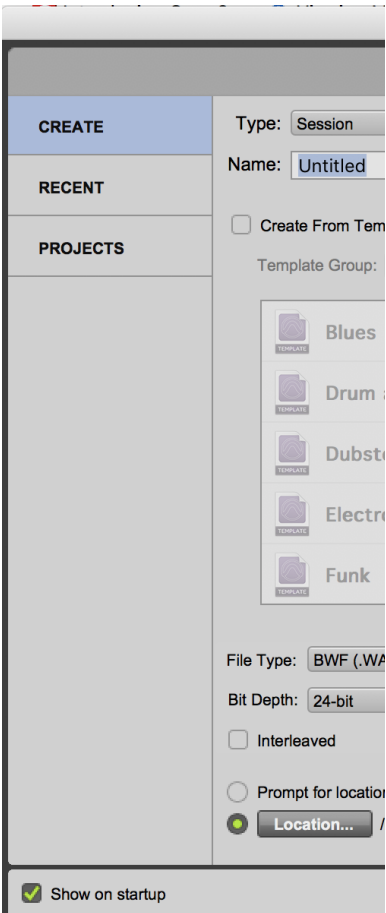


Click OK Here

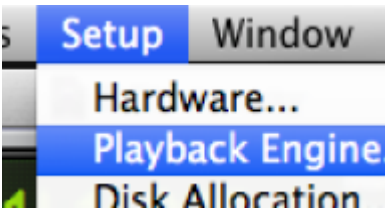


When ProTools opens click "Cancel" on the Quick Start Dialog. We do not want to open a session yet.

Need to set up the routing and Playback Engine first.



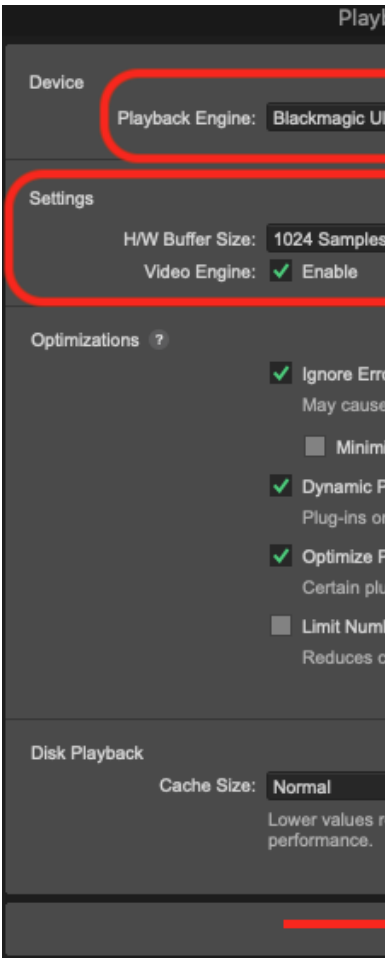
Go To Setup > Playback Engine



On the Playback Engine Drop Down choose **Blackmagic UltraStudio or Thunderbolt. . .**

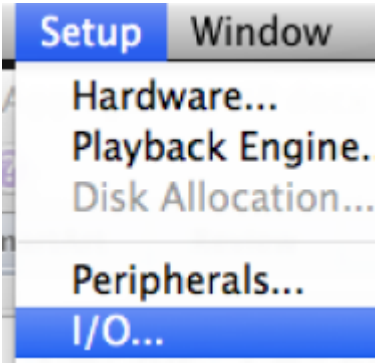
**Change the HW Buffer to 1024 Samples**

Click OK



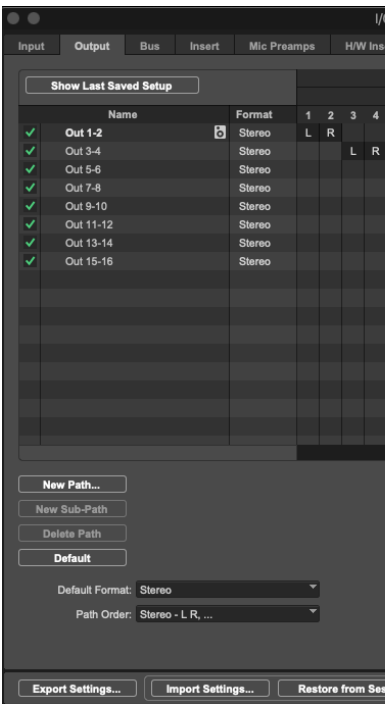
Now go to Input and Output setup

Go to >Setup>I/O

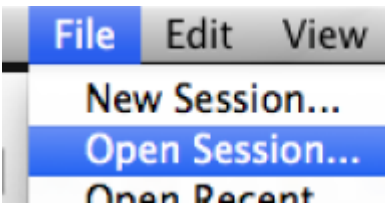


Click "Default!" on the I/O setup

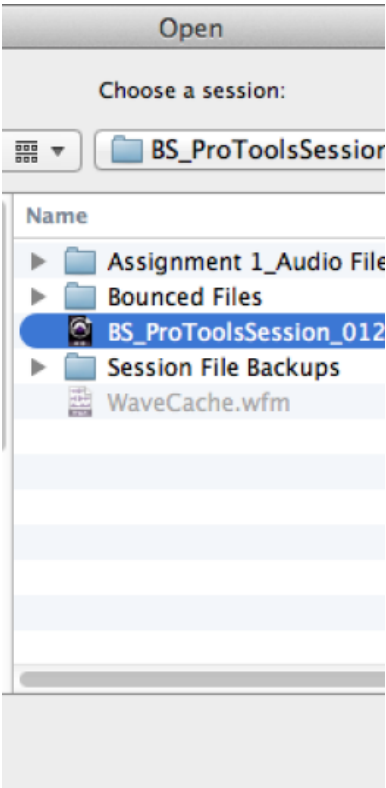
Then Click OK



Now that the routing and hardware is set up open the ProTools session if you have one created already or make a new session.



Navigate to the session and open it or create a new session



To create a new Protools session

Type - Session

Name - (session name)

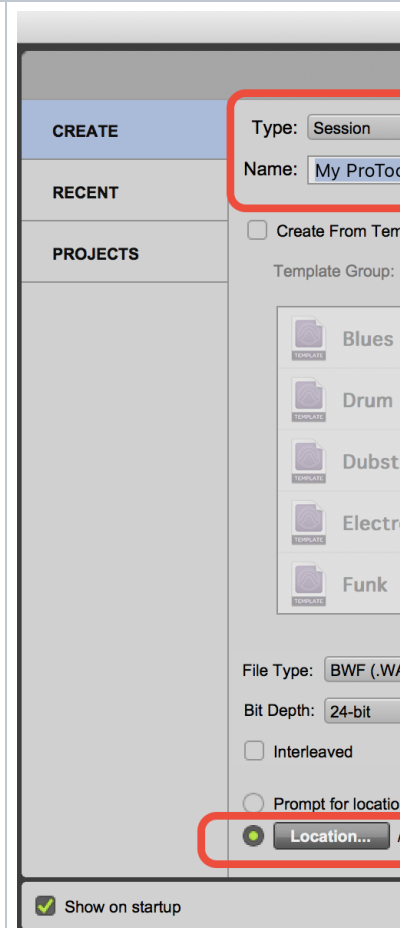
File Type - .WAV

Bit Depth: - 24 bit

Sample Rate: - 48kHz

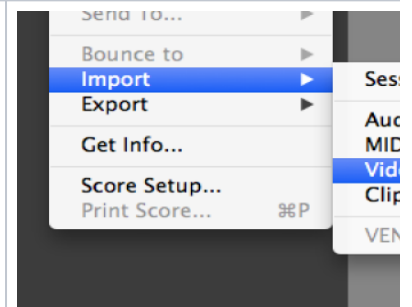
I/O last used

Location - set to your hard drive NOT THE DESKTOP!!!!

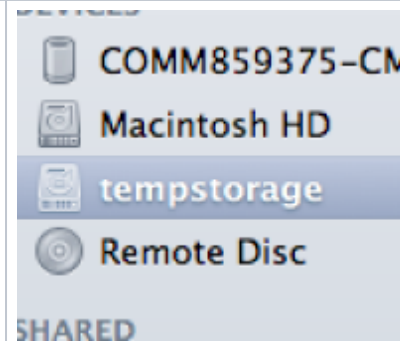


Next Import the video into the project

Choose Import Video

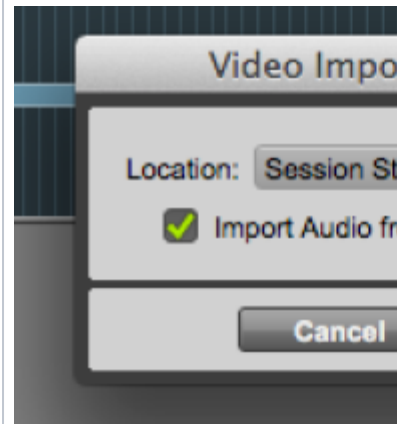


Navigate to the video file that you want to view in the ProTools session



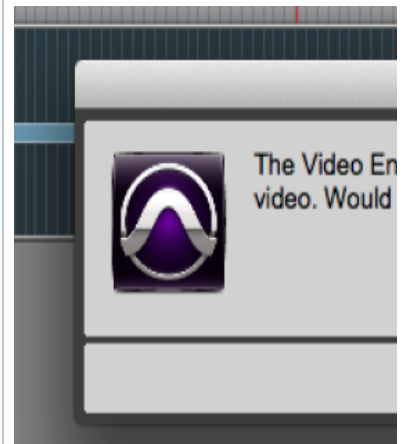


Choose to import at Session Start

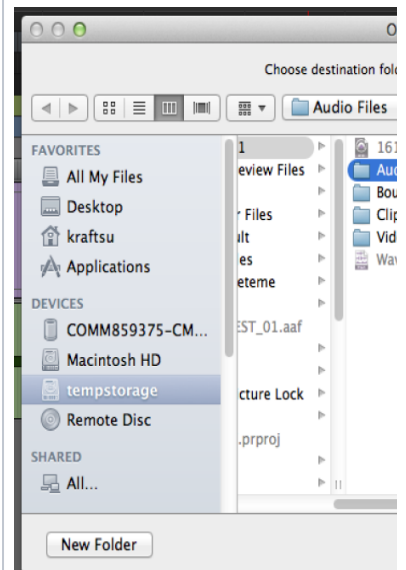


Choose to enable the Video Engine

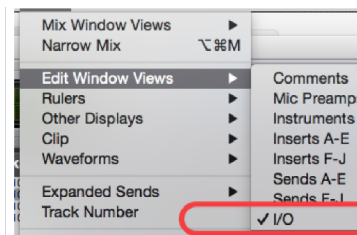
Click Yes here



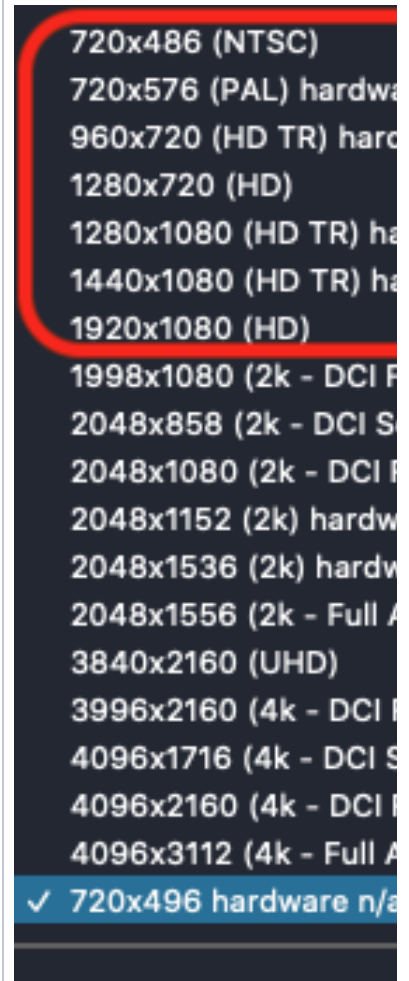
If you would like to use the audio off the video file choose to save it to the default Audio Drive folder



Last step is to open up the Input and Output view in ProTools  
Go to > View>Edit Window Views> I/O >



Choose the video resolution of the file from the choices. Probably best to choose a 1920x1080 that is the most common



Make sure all the audio outputs are routed to the Built In Line Output 1-2 Stereo Mac Pros or Out 1-2 Stereo Built In Output 1-2 IMacs

Then you should see image on the TV and hear audio the speakers



**If you do not see image on the Externa Monitors redo the entire rebooting process again and make sure you unplug the thunderbolt cable and power cycle the Black Magic Intensity. It should fix it.**